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## **Preface**

The Run II Upgrade Program consists of a set of upgrades to the Fermilab accelerator complex to maximize the luminosity delivered to the CDF and D0 experiments during the period prior to competitive physics results from LHC.

The plan, cost and schedule estimates are described in this present document. The companion attachments listed below address particular aspects of the plan. The original motivation, scope and technical basis are described to a large extent in “The Run IIb Plan”, presented to the Accelerator Advisory Committee, Dec 2001 (Reference 3).

## ***List of attachments***

### Overview

Project Overview, Summary of The Resource Loaded Schedule and Performance Projections (this document)

### Performance Models

1. Tevatron Modeling
2. Antiproton Production

### Subproject Technical Status and Plans

3. Slip-stacking: Studies
4. Slip-stacking: Beam Loading Compensation
5. The Pbar Target Station
6. The Lithium Lens Upgrade
7. AP2 and Debuncher Acceptance Upgrade
8. Accumulator Cooling System Upgrade
9. Electron Cooling in the Recycler
10. Rapid Transfers
11. Increased Beam Separation and Active Beam-Beam Compensation in the Tevatron